

FIG. 1
PRIOR ART

Figure 1 is a graph showing the temperature dependence of the Gibbs free energy of formation, $\Delta G/RT$, for various chemical species. The y-axis is $\Delta G/RT$ (ranging from -20 to 20) and the x-axis is Temperature T (K) (ranging from 300 to 1000). The graph includes curves for CH_4 , C_6H_{14} , Glucose, WGS, $\text{CH}_3(\text{OH})$, $\text{C}_6\text{H}_8(\text{OH})_6$, $\text{C}_2\text{H}_5\text{OH}$, and several numbered curves (10, 12, 14, 16, 18, 20, 22). The curves generally show a decrease in $\Delta G/RT$ as temperature increases, with some curves crossing the zero line.

FIG. 2

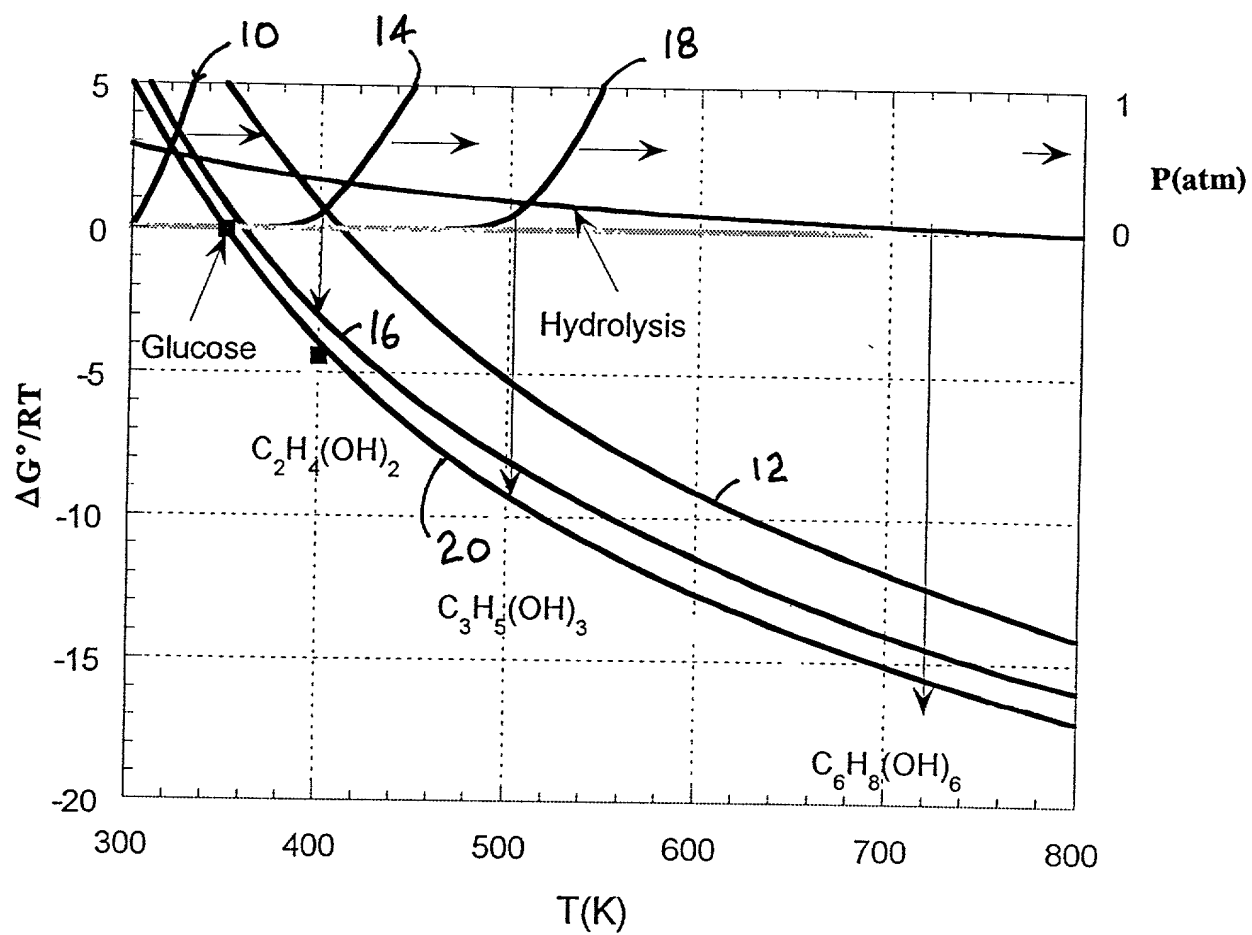


FIG. 3

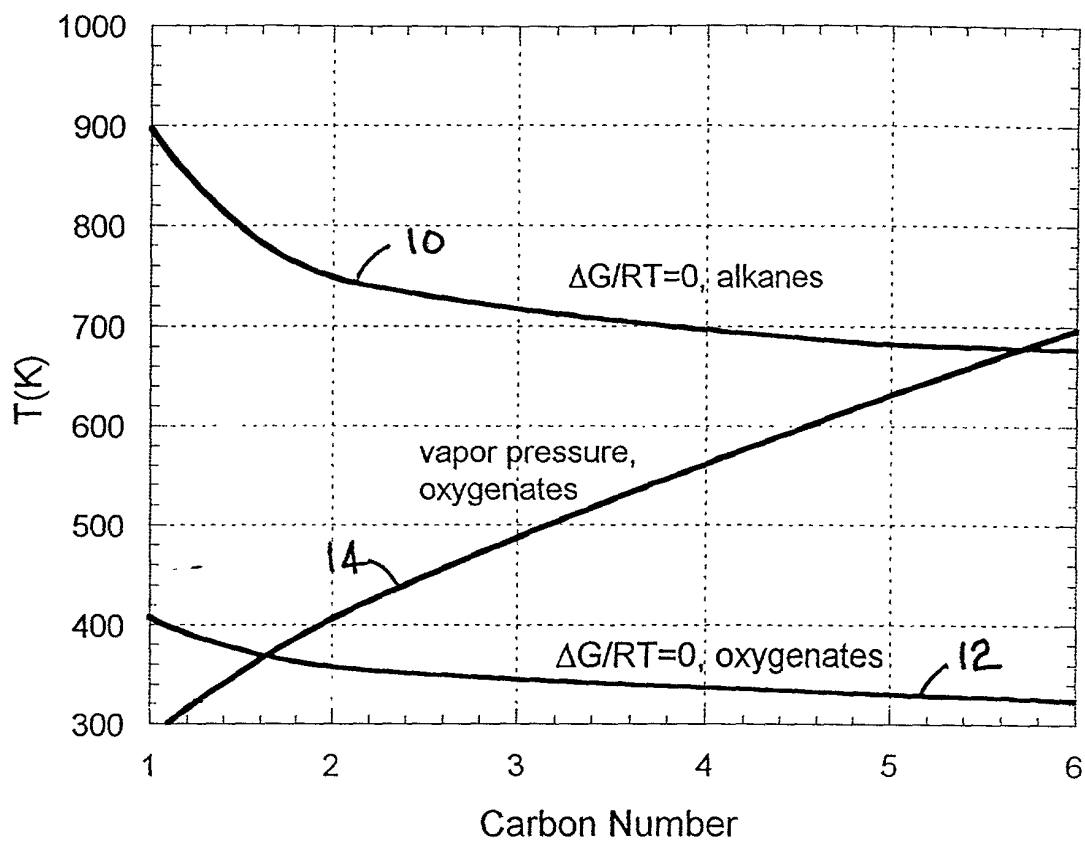


FIG. 4

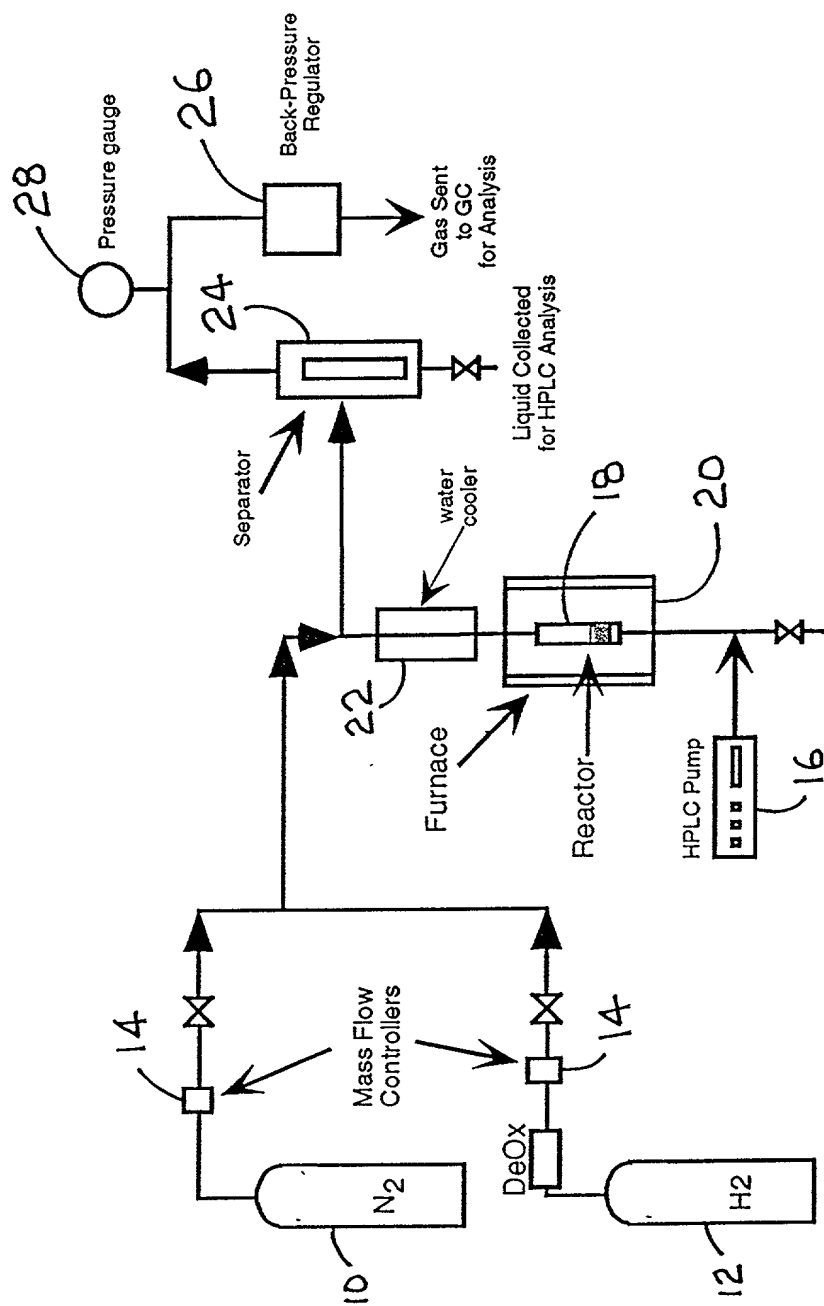


FIG. 5

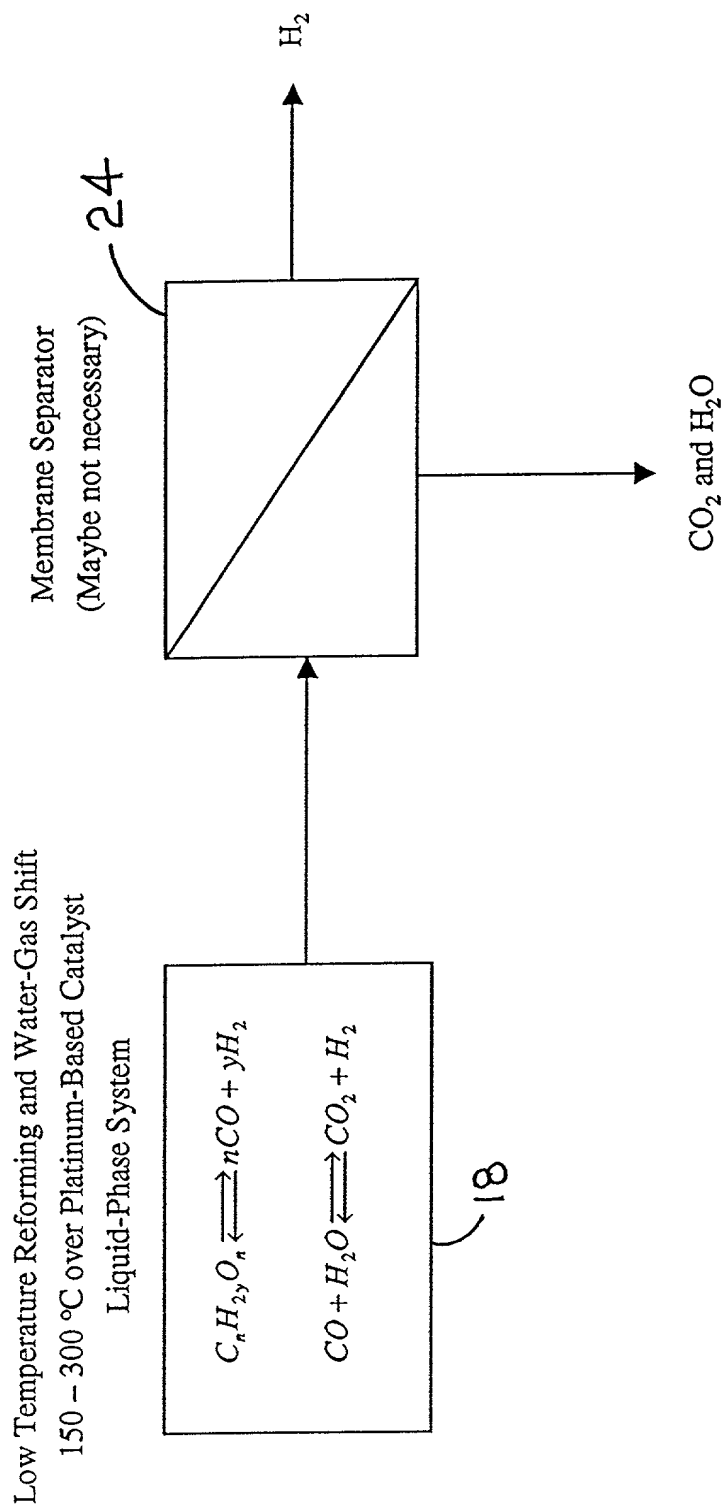


FIG.6

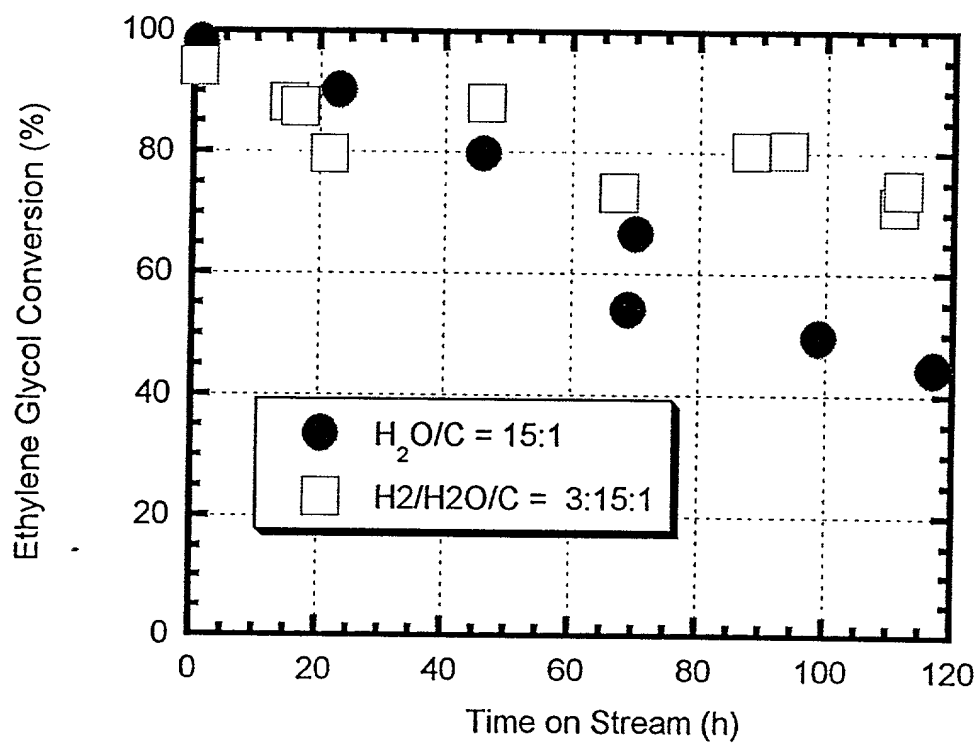


FIG. 7

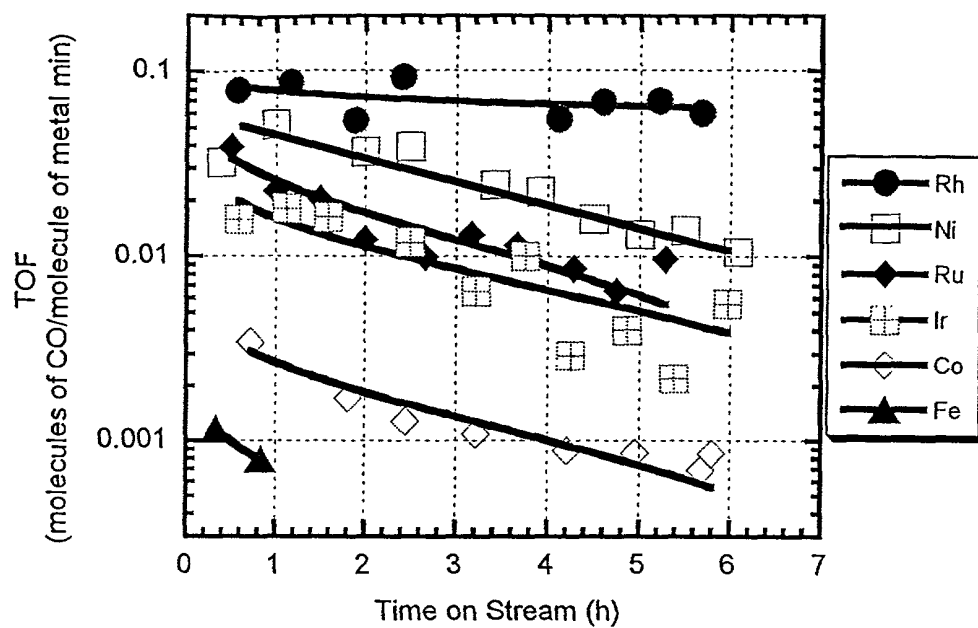


FIG. 8

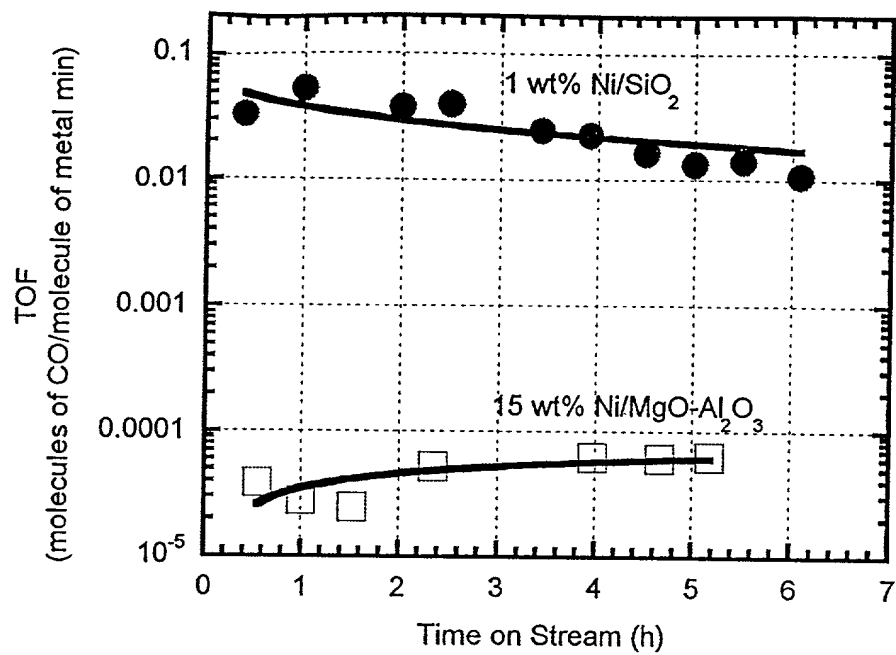


FIG. 9

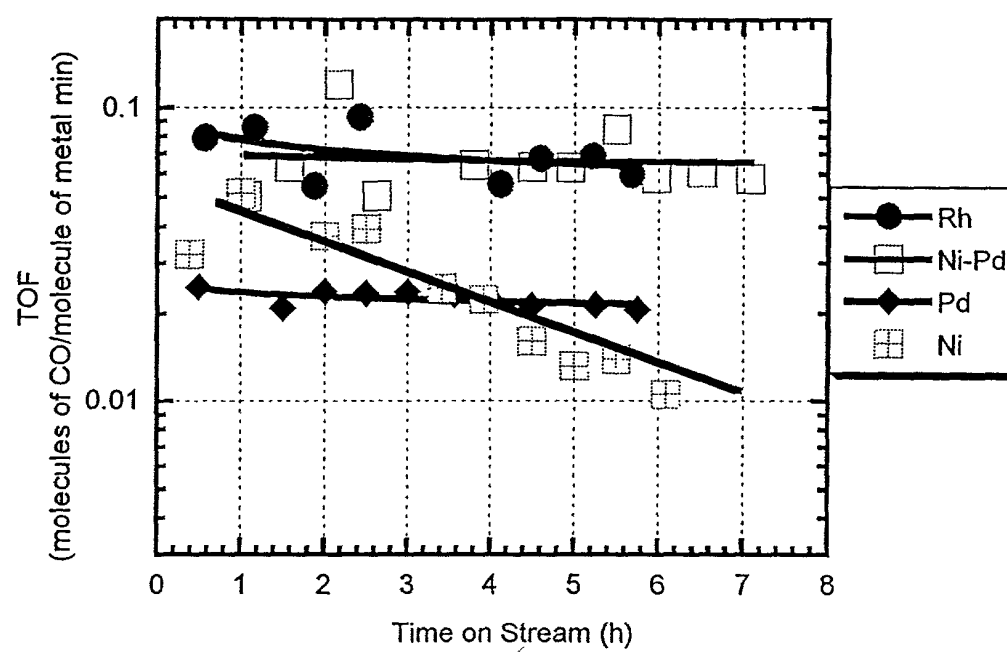


FIG.10

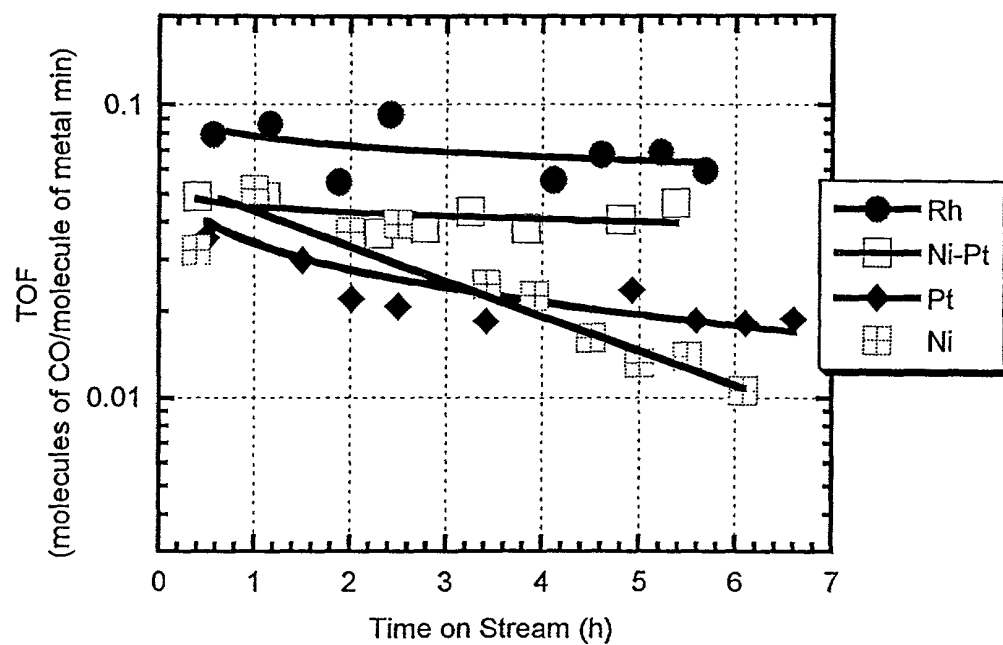


FIG. 11

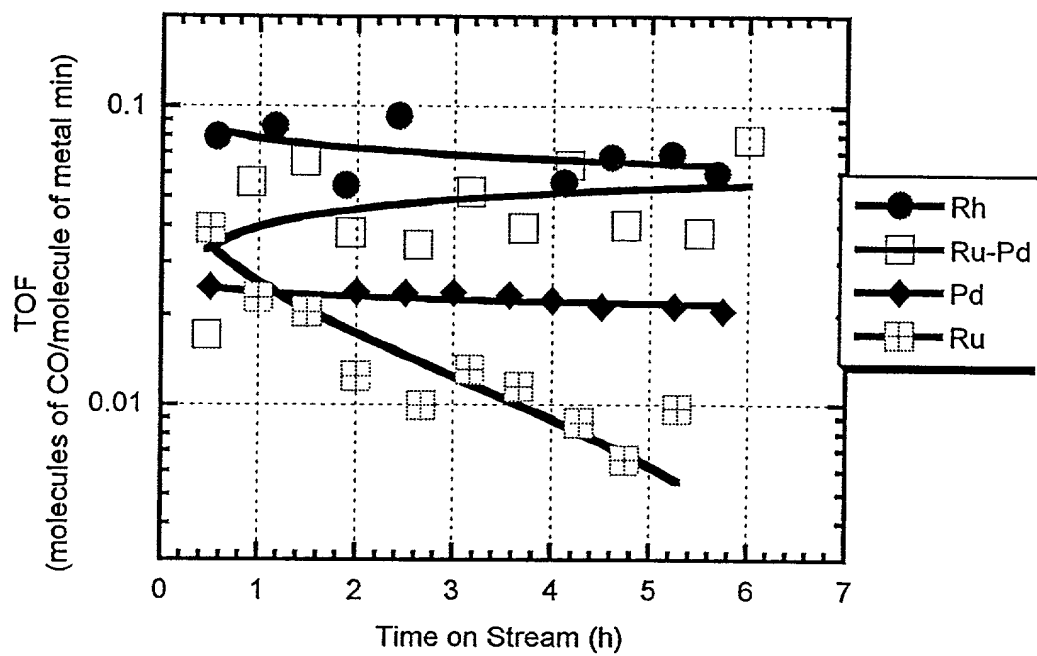


FIG. 12

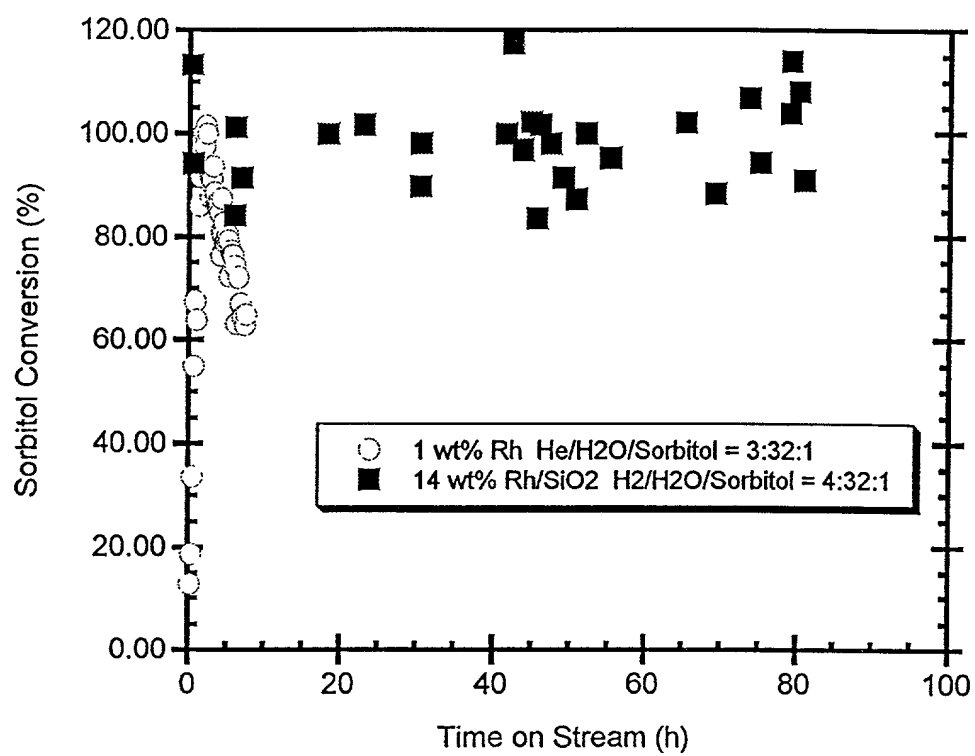


FIG. 13

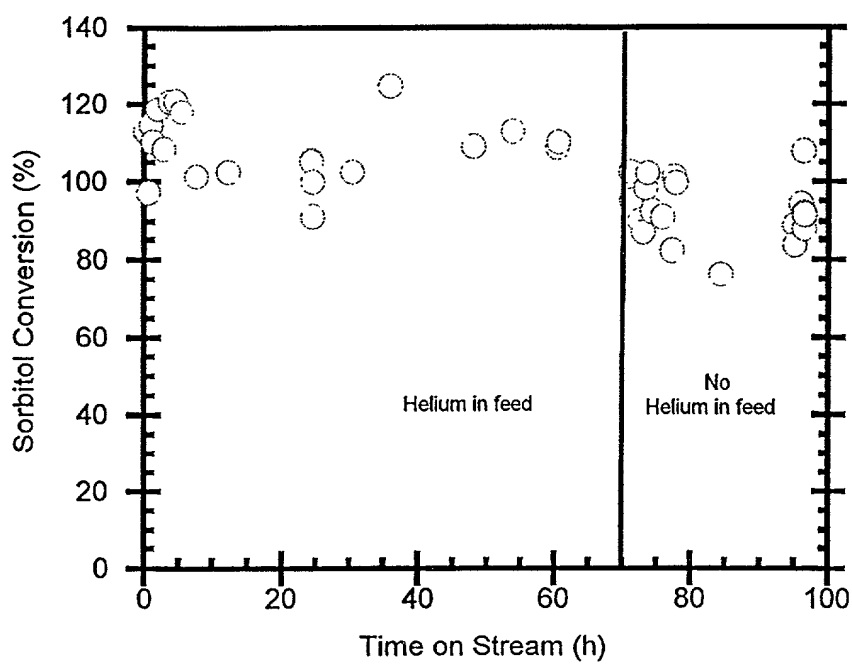


FIG.14

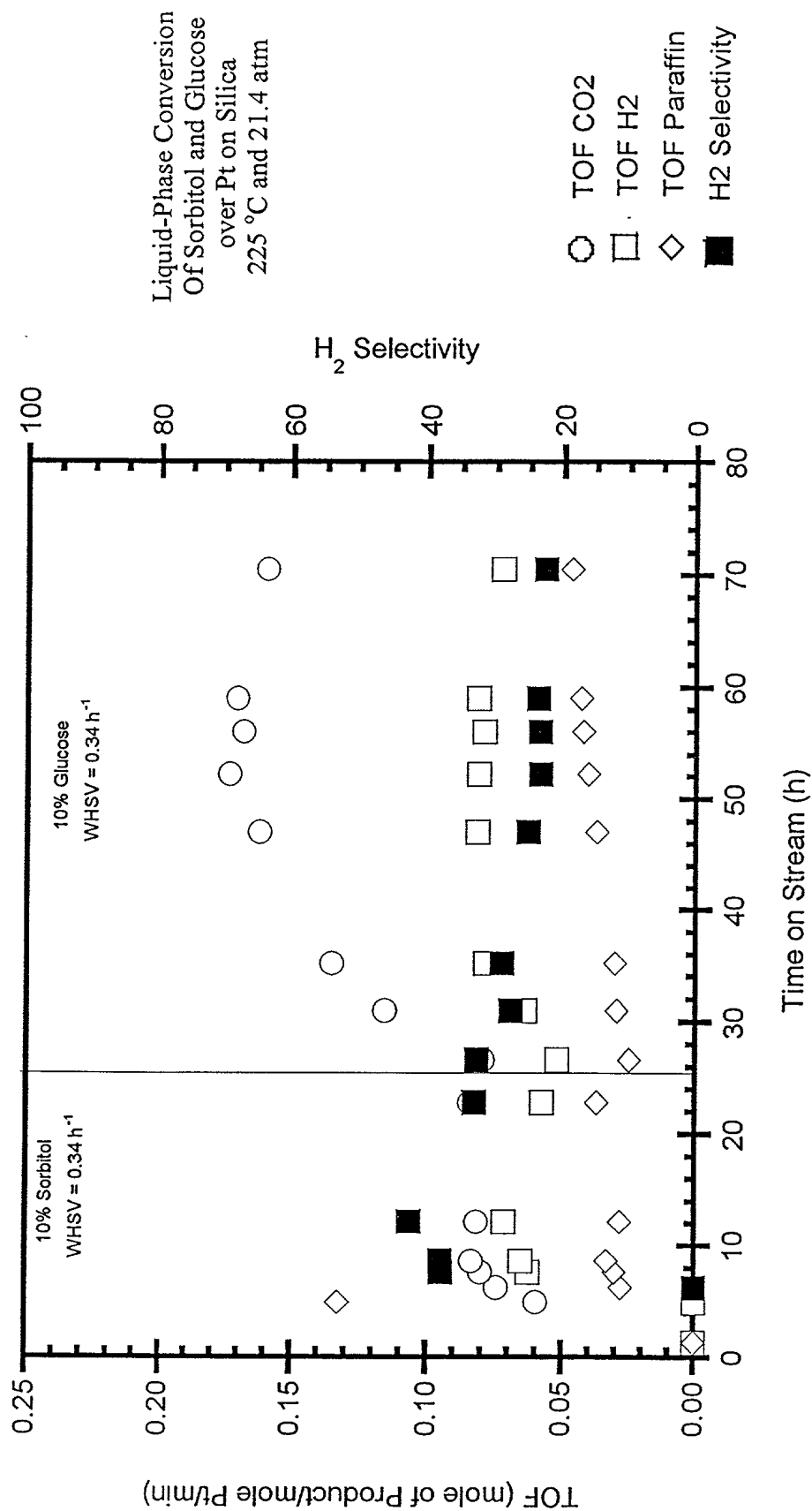


FIG. 15

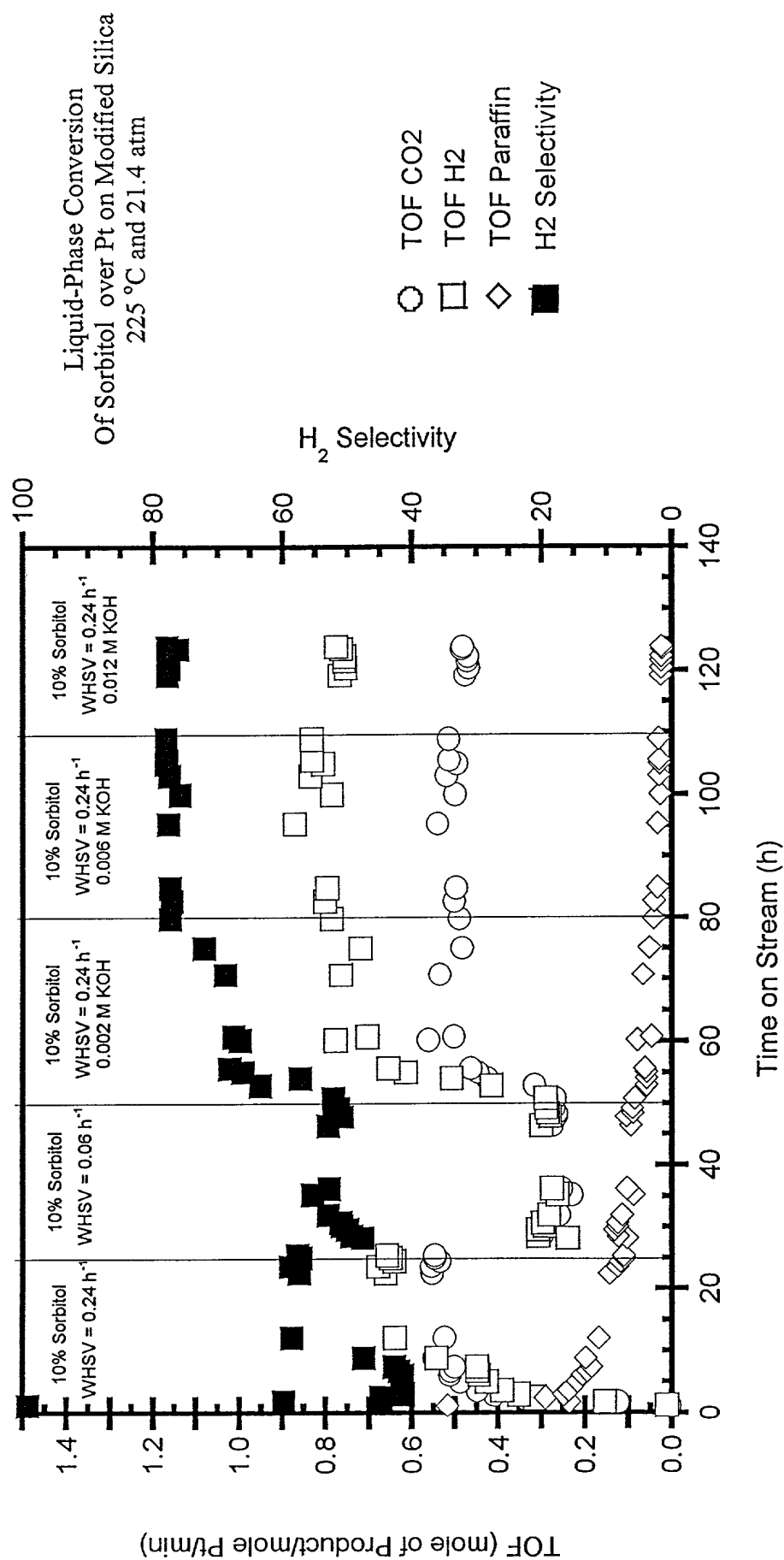


FIG. 16